

Abstract of the Disclosure

Disclosed is a coupler that grips the internal surface of a torque receptor such as a
5 pipe or driveshaft to be turned. When torque is applied to the coupler, one or more
gripping surfaces are forced apart by a cam mechanism. The gripping surfaces tightly
engage the internal surface of the pipe in response to movement of an internal cam.
Torque applied to the wrench causes the pipe to turn. Because the wrench grips the
internal diameter of a torque receptor, it can be used without damaging the external
10 surface of the torque receptor, and used in very confined spaces. The gripping surfaces
distribute the gripping load evenly across the pipe, which minimizes any deformation of
the pipe. The pipe is engaged by the gripping surfaces beyond the threaded portion of the
pipe, where the pipe has more structure, to prevent ovaling.